





"Preserving the pastwith an eye on the Future"

Defense Visual Information Center







DVIC Mission

- Provide the storage and safeguarding of irreplaceable DoD motion and still media records
- Ensure the records are accessible to DoD, Federal and state agencies, and the American public





Electronic Records Management





- Still Video format (72dpi)
 - Solved immediacy issues
 - Not enough resolution for print (300 dpi)
 - ❖ Pixelization on prints larger than 5x7
 - Lack of industry standards
 - * Many formats competing for consumer dollars
 - Created a test bed for industry collaboration
 - * No associated metadata
 - * Released/Not Released





- JPEG Standard
 - Joint Photographic Experts Group
 - ♦ JPEG vs TIFF
 - ❖ Lossy vs lossless compression
 - * Compression required for our business model
 - Imagery competing for bandwidth with intelligence





- DoD Still Imagery Standard
 - * JPEG
 - * Open source coding for migration and data transportability
 - Minimum 300 dpi (longest side)
 - * Compressed at High Quality
 - Imbedded metadata
 - * 3 resolutions Thumbnail, Screen, Archival
 - * Long term sustainability
 - Format
 - Compression
 - Usability
 - Storage costs



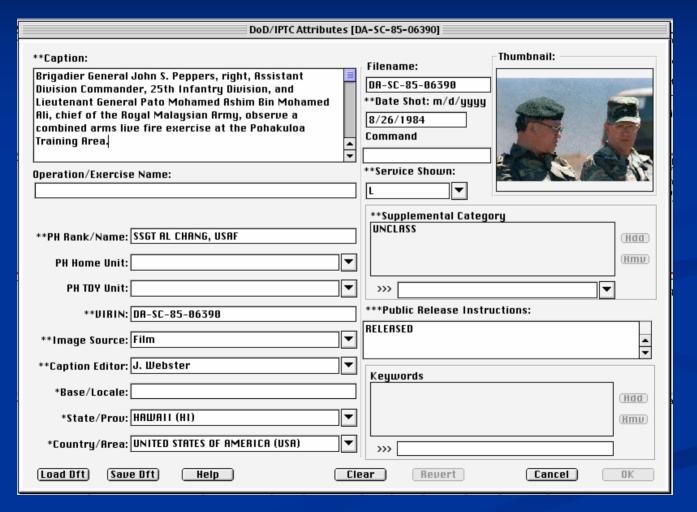


* IPTC

- * International Photographic Telecommunications Consortium
 - ❖ Metadata standards
 - Automatically recorded metadata
 - Date
 - Camera settings
 - * Format
 - Location GPS
 - User input metadata
 - * Modifiable fields to suit user needs
 - Associated Press style for captions











- Digital Photography Transfer Cycle ERM eGov Partners Meeting September 16, 2003
 - Developed transfer requirements for permanent digital photography records
 - * NARA adopted the DoD still image standard





- Digital Video formats
 - Solves immediacy issues
 - * Broadcast standard needs a bigger pipeline
 - ❖ Satellite expensive
 - * Highly compressed video imagery jumpy
 - Lack of industry standards
 - *Many formats competing for consumer dollars
 - * No associated metadata
 - Released/Not Released





- * Many similarities with still digital image effort
- No industry standard
- Hollywood settled on MPEG standard
- No DoD standard
- Military Service providers already producing content in many different formats





- * Additional challenges of digital motion:
 - * Three tier structure Subject, Item, Scene
 - Parent/child/grandchild relationship
 - ❖ Repurposed content Stock used for other pieces
 - * Metadata associated to scene or cut
 - No imbedded metadata standard
 - * April 7, 2009 HDTV digital broadcast mandatory
 - * Long term preservation of standard definition





- What are we looking for in a DoD standard for motion?
 - **♦** MPEG? (2, 4, 7, 21)
 - Open source coding for migration and data transportability
 - Minimum sample rate (resolution)
 - Compressed at High Quality
 - Imbedded Metadata does not exist (MPEG 21)
 - ❖ 3 resolutions Thumbnail, Screen, Archival
 - Long term sustainability
 - * Format
 - Compression
 - Usability
 - Storage costs





Challenges

- * Keep up with technology
- Look for open architecture source code products
- * Look for automation tools to save man-hours
- Get buy-in from our constituents
- * Upgrade migration plan annually
- Project database portability requirements
 - Wrappers
- Project long-term storage requirements
- Collaborate with partners to streamline the lifecycle management of Visual Information records





DVIC Customer Service

Defense Visual Information Center 23755 Z Street Riverside CA 92518-2031

Kathy Vinson, Still Media Rep 951-413-2522

dvicserv@dodmedia.osd.mil DSN 348-1522

Connie Johnson, Motion Media Rep 951-413-2515 dvicserv@dodmedia.osd.mil DSN 348-1515

> Customer Service Fax 951-413-2525 DSN 348-1525

> > http://www.dodmedia.osd.mil/









